

IN THE UNITED STATES OFFICE OF PATENTS AND TRADEMARKS

Applicant: John A. Moon :  
Serial No.: 10/661,836 : Group No.: 1743  
Filed: September 12, 2003 : Examiner: Hyun, Paul Sang Hwa  
For: METHOD AND APPARATUS :  
FOR ALIGNING MICROBEADS :  
IN ORDER TO INTERROGATE :  
THE SAME :

**CERTIFICATE OF MAILING BY EXPRESS MAIL TO  
THE COMMISSIONER OF PATENTS AND TRADEMARKS**

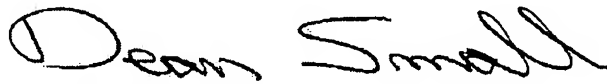
Express Mail label number: **EB 305555861 US**

Date of Mailing: **August 31, 2007**

I certify that documents listed below:

- Certificate of Mailing By Express Mail (1 pg.)
- Information Disclosure Statement Transmittal (2 pgs., *in duplicate*)
- Information Disclosure Statement (8 pgs.)
- PTO/SB/08A Form IDS listing:
  - (36) unattached US references
  - (18) attached foreign references – B-1 through B-18
  - (24) attached non-patent references – C-1 through C-24
- Return postcard

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above in an envelope addressed to Mail Stop: Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Dean D. Small  
Reg. No.: 34,730  
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(314) 584-4080

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|                               |   |                               |
|-------------------------------|---|-------------------------------|
| Applicant: John A. Moon       | : |                               |
|                               | : | Art Unit: 1743                |
| Serial No.: 10/661,836        | : |                               |
|                               | : | Examiner: Hyun, Paul Sang Hwa |
| Filed: September 12, 2003     | : |                               |
|                               | : |                               |
| For: METHOD AND APPARATUS FOR | : |                               |
| ALIGNING MICROBEADS IN ORDER  | : |                               |
| TO INTERROGATE THE SAME       | : |                               |

**INFORMATION DISCLOSURE STATEMENT TRANSMITTAL**

Mail Stop: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The following are submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98.

- ☒ 1. A list of documents on form PTO/SB/08A (Substitute for form 1449/PTO) together with copies of each identified document and a translation thereof or a concise explanation of each non-English language document or a Search Report or communication from a non-US patent office or an International Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document(s) cited in the application or the priority application.

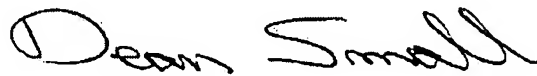
This paper is submitted in accordance with:

- ☐ 2. 37 CFR 1.97(b): [within three months of national, non-CPA filing, prior to first Office Action, on the merits, or prior to first office action after filing an RCE].

- ☒ 3. 37 CFR 1.97(c): [before Final Office Action, Allowance, or other action closing prosecution, whichever is earlier]; and
- ☐ a. The required Certification made in item 5 below; or
- ☒ b. The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 6 below.
- ☐ 4. 37 CFR 1.97(d): [on or before issue fee payment]; and
- ☐ a. The required Certification is stated in item 5 below; and
- ☐ b. The \$180.00 fee specified in 37 C.F.R. 1.17(p) for submission of this Information Disclosure Statement is authorized in item 6 below.
- ☐ 5. Certification
- ☐ a. Each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this Statement; or
- ☐ b. No item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application and, to the knowledge of the person signing this document after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing date of this Statement.
- ☒ 6. Payment of all applicable fees:
- ☒ If any additional extension and/or fee is required, charge Deposit Account No. 50-3858.
- ☒ PTO-2038 Credit Card Payment Form is attached for the amount of \$180.00 for payment of all applicable fees associated with the submittal of this Information Disclosure Statement.

This document is submitted in duplicate.

Respectfully Submitted,



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: John A. Moon et al. :  
: Art Unit: 1743  
Serial No.: 10/661,836 :  
: Examiner: Hyun, Paul Sang Hwa  
Filed: September 12, 2003 :  
: :  
For: METHOD AND APPARATUS FOR :  
ALIGNING MICROBEADS IN ORDER TO :  
INTERROGATE THE SAME

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. § 1.97 and duty of candor and good faith in dealing with the PTO, the undersigned submits the following Information Disclosure Statement and accompanying Form 1449.

The references listed in the accompanying Form 1449 have been cited during the prosecution of copending foreign and other U.S. applications. When the Examiner considers the references listed in the accompanying Form 1449, the Examiner is also requested to consider the information provided in Tables 1 and 2 below. Tables 1 and 2 concern prosecution of the copending foreign and other U.S. applications noted above. Table 1 provides a list of the serial numbers for the above noted copending applications, dates on which Office Actions were mailed, and the cited art applied in such Office Actions under one or more sections of 102 and/or 103. Table 1 lists all of the applied art in the other U.S. applications, some art of which is not yet of record in the present application and some art of which may already be of record in the present application. The references in Table 1 that were cited in an Office Action of another U.S. application and are not yet of record in the present application are also cited in the attached Form 1449. If Table 1 lists references that were cited in an Office Action of another U.S. application, but are already of record in the present application, then such references are identified with an

asterisk (\*) in Table 1 to indicate that they were previously submitted to the Office in the present application. Hence, references listed in Table 1 with an asterisk are not listed on the attached Form 1449, as they are already of record in the present application.

**Table 1**

| U.S. Application No. | Cited Art in a 102 and/or 103 Rejection  | Date of Office Action |
|----------------------|--|-----------------------|
| 9706438              | 5830622 (Canning)<br>5771251 (Kringlebotn)<br>6356681 (Chen)   | 8/28/2002             |
| 10645686             | 6005691 (Grot)<br>6096496 (Frankel) *<br>6214560 (Yguerabide)  | 10/4/2004             |
| 10645689             | 6096496 (Frankel) *<br>6214560 (Yguerabide)  | 10/4/2004             |
| 10661031             | 6005691 (Grot)<br>6096496 (Frankel) *<br>6214560 (Yguerabide)  | 10/4/2004             |
| 10661031             | 6005691 (Grot)<br>6096496 (Frankel) *<br>6214560 (Yguerabide)<br>4537504 (Baltes)<br>2003/0129654 (Ravkin) *   | 5/11/2005             |
| 10661082             | 6005691 (Grot)<br>6096496 (Frankel) *<br>6214560 (Yguerabide)  | 10/12/2004            |
| 10661082             | 6005691 (Grot)<br>6096496 (Frankel) *<br>6214560 (Yguerabide)<br>4537504 (Baltes)<br>2003/0129654 (Ravkin) *   | 7/15/2005             |
| 10661115             | 2003/0228610 (Seul)<br>2003/0129654 (Ravkin) *   | 12/27/2006            |
| 10661116             | 5745615 (Atkins)<br>6174648 (Terao)<br>6067392 (Wakami) *<br>Othonos et al., "Superimposed Multiple Bragg Gratings," Electronic Letters, vol. 30, no. 23, pp.1972-1974 | 10/12/2004            |
| 10661116             | JP11-119029A<br>5745615 (Atkins)<br>6067392 (Wakami) *<br>Othonos et al., "Superimposed Multiple Bragg Gratings," Electronic Letters, vol. 30, no. 23, pp.1972-1974    | 5/10/2005             |

| U.S. Application No. | Cited Art in a 102 and/or 103 Rejection   | Date of Office Action |
|----------------------|---|-----------------------|
| 10661234             | 6005691 (Grot)<br>6096496 (Frankel) *<br>6214560 (Yguerabide)<br>2003/0129654 (Ravkin) *  | 1/11/2005             |
| 10661234             | 5633975 (Gary)<br>6096496 (Frankel) *<br>6214560 (Yguerabide)<br>2003/0129654 (Ravkin) *  | 9/13/2005             |
| 10661254             | 6005691 (Grot)<br>6096496 (Frankel) *<br>WO96/36436 (Nova)  | 10/12/2004            |
| 10661254             | 6005691 (Grot)<br>6096496 (Frankel) *<br>WO96/36436 (Nova)<br>2003/0129654 (Ravkin) *<br>4537504 (Baltes)   | 5/10/2005             |
| 10763995             | 6005691 (Grot)<br>6096496 (Frankel) *<br>6214560 (Yguerabide)<br>2003/0129654 (Ravkin) *  | 5/12/2005             |
| 10763995             | 6905885 (Colston) *<br>WO96/36436 (Nova)  | 6/9/2006              |
| 10990057             | 2002/0006664 (Sabatini)<br>2002/0094528 (Salafsky)<br>2004/0125370 (Montagu)<br>4011435 (Phelps) *<br>5283777 (Tanno)<br>5610287 (Nikiforov)<br>5633975 (Gary)<br>2005/0042764 (Sailor) | 5/18/2006             |
| 10990057             | 2002/0006664 (Sabatini)<br>2002/0094528 (Salafsky)<br>2004/0125370 (Montagu)<br>2005/0042764 (Sailor)<br>4011435 (Phelps) *<br>5283777 (Tanno)<br>5610287 (Nikiforov)<br>5633975 (Gary) | 9/11/2006             |
| 10990057             | 2002/0006664 (Sabatini)<br>2002/0094528 (Salafsky)<br>2004/0125370 (Montagu)<br>2005/0042764 (Sailor)<br>4011435 (Phelps) *<br>5283777 (Tanno)<br>5610287 (Nikiforov)<br>5633975 (Gary) | 3/27/2007             |

| U.S. Application No. | Cited Art in a 102 and/or 103 Rejection   | Date of Office Action |
|----------------------|---|-----------------------|
| 11063660             | 5633975 (Gary)<br>6321007 (Sanders)<br>5881197 (Dong)   | 2/15/2007             |
| 11063660             | JP 2000-035521 (Kawanishi)<br>6542673 (Holter)  | 7/3/2007              |
| 11063666             | 2003/0129654 (Ravkin) *<br>2004/0233485 (Moon)<br>6005691 (Grot)<br>6096496 (Frankel) *<br>6214560 (Yguerabide) | 7/20/2006             |
| 11158782             | 2003/0129654 (Ravkin) *<br>2004/0233485 (Moon)<br>6005691 (Grot)<br>6096496 (Frankel) *<br>6214560 (Yguerabide) | 7/20/2006             |

Table 2 provides a list of the serial numbers for the above noted copending foreign applications, dates on which Search Reports or Office Actions were mailed, and the references that were cited as Category X or Category Y documents. The references that were cited in each corresponding Search Report or Office Action are also cited in the attached Form 1449. Table 2 lists all of the applied art in the other PCT and foreign applications, some art of which is not yet of record in the present application and some art of which may already be of record in the present application. The references in Table 2 that were cited in a Search Report or Office Action of a foreign application and are not yet of record in the present application are also cited in the attached Form 1449. If Table 2 lists references that were cited in a Search Report or Office Action of a foreign application, but are already of record in the present application, then such references are identified with an asterisk (\*) in Table 2 to indicate that they were previously submitted to the Office in the present application. Hence, references listed in Table 2 with an asterisk are not listed on the attached Form 1449, as they are already of record in the present application.

**Table 2**

| Foreign Application No.                  | References Cited as X or Y  | Date of Search Report or Office Action |
|--|---|--|
| European Applicationn.<br>No. 04811206.4 | US 2003/0129654 *<br>US 2004/126875<br>WO 2004/025562   | 1/16/2007                              |
| PCT US 2004030037                        | US 5671308 *<br>WO 2004/019276  | 4/15/2005                              |
| PCT US 2004030038                        | US 2003/129654 *<br>GB 2129551<br>US 6159748  | 4/28/2005                              |
| PCT US 2004030300                        | WO 00/16893 *<br>WO 00/61198<br>US 6340588 *<br>US 2002/039732 *<br>Yuen Po Ki et al, "Microbarcode sorting device"<br>Lab on a Chip, August 2003, pages 198-201<br>Jain KK, "Nanodiagnostics: Application of<br>Nanotechnology in Molecular Diagnostics"<br>Expert Review of Molecular Diagnostics, Future<br>Drugs, London, vol. 3, no. 2, March 2003; pp.<br>153-161 | 3/13/2006                              |
| PCT US 2004032084                        | WO 02/059306<br>WO 2004/019276<br>US 2004/125424<br>WO 01/71322<br>CH 598 661   | 1/27/2005                              |
| PCT US 2004038416                        | US 2003/0129654 *<br>US 2004/126875<br>WO 2004/025562   | 10/6/2005                              |
| PCT US 2005005745                        | US 6005691<br>US 2004/0233485<br>US 6214560<br>US 2003/0129654 *<br>US 6096496 *  | 8/29/2006                              |
| PCT US 2005026289                        | WO 2004/024328<br>EP 1182054<br>US 4400616<br>US 2002/000471  | 2/14/2006                              |
| PCT US 2005041730                        | US 6545758<br>US 2004/100636<br>US 2004/047030<br>EP 0916981  | 10/5/2006                              |
| PCT US 2005041731                        | WO 2004/019276  | 4/21/2006                              |



| Foreign Application No. | References Cited as X or Y  | Date of Search Report or Office Action |
|-------------------------|---|--|
| PCT US0326315           | US 5671308 *<br>EP 1219979<br>WO 03/061983<br>GB 2372100<br>US 6340588 *                                | 1/21/2004                              |
| PCT US0326316           | EP 1219979<br>WO 03/061983<br>GB 2372100<br>US 6340588 *<br>US 5671308 *                                | 1/26/2004                              |
| PCT US0328862           | WO 00/61198<br>US 2002/039732 *<br>US 6340588 *<br>WO 00/16893 *  | 1/30/2004                              |
| PCT US0328874           | US 6096496 *<br>EP 1219979<br>WO 03/061983<br>GB 2372100<br>US 5671308 *<br>WO 01/58583<br>US 6340588 * | 2/5/2004                               |
| PCT US0328875           | WO 00/61198<br>WO 03/061983<br>EP 1219979<br>GB 2372100<br>US 5671308 *                                 | 2/4/2004                               |
| PCT US0328887           | US 6096496 *<br>EP 1219979<br>WO 03/061983<br>GB 2372100<br>US 5671308 *<br>WO 01/58583<br>US 6340588 * | 2/5/2004                               |
| PCT US0328890           | US 6035082  | 12/18/2003                             |
| PCT US0329164           | US 6340588 *<br>EP 1219979<br>WO 03/061983<br>GB 2372100<br>US 5671308 *<br>WO 01/58583<br>US 6096496 * | 2/5/2004                               |

| Foreign Application No. | References Cited as X or Y   | Date of Search Report or Office Action |
|-------------------------|--|--|
| PCT US0329244           | EP 1219979<br>WO 03/061983<br>GB 2372100<br>US 6340588 *<br>US 5671308 *                   | 1/20/2004                              |
| PCT US0401685           | EP 1219979<br>WO 03/061983<br>WO 01/58583<br>US 6340588 *<br>GB 2372100                    | 7/6/2004                               |
| PCT US2005005743        | US 2002/0155490<br>US 5307332<br>US 5922617<br>US 5837552<br>US 6030581<br>US 2002/0097658 | 8/4/2006                               |
| PCT US2005033694        | WO 2004/066210   | 4/25/2006                              |

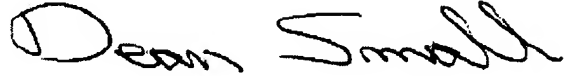
Furthermore, with respect to references that are in a foreign language, English translations of the reference or English abstracts have been provided. More specifically, Swiss reference CH 598 661 is accompanied with an English translation obtained from the European patent office; JP11-119029A is an English abstract of a Japanese reference; and JP 2000-035521 (Kawanishi) is accompanied with an English translation of the Abstract and the specification.

The filing of this Information Disclosure Statement should not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b). Also, it is emphasized that the undersigned is under no obligation to provide the information in Tables 1 and 2 above. Providing the information in Tables 1 and 2 above is not required under 37 C.F.R. § 1.97, nor under the duty of candor and good faith in dealing with the PTO. This information is provided merely as a convenience.

Should the Examiner have any questions regarding the above, the Examiner is kindly invited to contact the undersigned at the telephone number listed below.

Respectfully Submitted,

Date: 8/31/07

A handwritten signature in cursive script that reads "Dean Small". The signature is written in black ink and is positioned above a horizontal line.

Dean Small, Reg. No.: 34,730  
The Small Patent Law Group LLP  
611 Olive Street, Ste. 1611  
St. Louis, MO 63101  
314-584-4081

|  |   |    |   |                          |                          |
|--|---|----|---|--------------------------|--------------------------|
| Substitute for form 1440/PTO<br><br><b>INFORMATION DISCLOSURE STATEMENT<br/>BY APPLICANT</b><br><i>(Use as many sheets as necessary)</i> |   |    |   | <b>Complete if Known</b> |                          |
|  |   |    |   | Application Number       | 10/661,836               |
|  |   |    |   | Filing Date              | September 12, 2003       |
|  |   |    |   | First Named Inventor     | John Moon                |
|  |   |    |   | Art Unit                 | 1743                     |
|  |   |    |   | Examiner Name            | Hyun, Paul Sang Hwa      |
|  |   |    |   | Attorney Docket Number   | IP-0018-US (830-0018US1) |
| Sheet  | 1 | of | 6 |                          |                          |

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited<br>Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant figures Appear |
|-----------------------|--------------------------|--|--------------------------------|--|--|
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |  |
|                       | A1                       | 4,400,616                                | 08-23-1983                     | Chevillat et al.                                   |  |
|                       | A2                       | 4,537,504                                | 08-27-1985                     | Baltes et al.                                      |  |
|                       | A3                       | 5,283,777                                | 02-01-1994                     | Tanno et al.                                       |  |
|                       | A4                       | 5,307,332                                | 04-26-1994                     | Tinet  |  |
|                       | A5                       | 5,610,287                                | 03-11-1997                     | Nikiforov et al.                                   |  |
|                       | A6                       | 5,633,975                                | 05-27-1997                     | Gary et al.  |  |
|                       | A7                       | 5,745,615                                | 04-28-1998                     | Atkins et al.                                      |  |
|                       | A8                       | 5,771,251                                | 06-23-1998                     | Kringlebotn et al.                                 |  |
|                       | A9                       | 5,830,622                                | 11-03-1998                     | Canning et al.                                     |  |
|                       | A10                      | 5,837,552                                | 11-17-1998                     | Cotton et al.                                      |  |
|                       | A11                      | 5,881,197                                | 03-09-1999                     | Dong et al.  |  |
|                       | A12                      | 5,922,617                                | 07-13-1999                     | Wang et al.  |  |
|                       | A13                      | 6,005,691                                | 12-21-1999                     | Grot et al.  |  |
|                       | A14                      | 6,030,581                                | 02-29-2000                     | Virtanen   |  |
|                       | A15                      | 6,035,082                                | 03-07-2000                     | Murphy et al.                                      |  |
|                       | A16                      | 6,159,748                                | 12-12-2000                     | Hechinger  |  |
|                       | A17                      | 6,174,648                                | 1-16-2001                      | Terao et al.                                       |  |
|                       | A18                      | 6,214,560                                | 4-10-2001                      | Yguerabide et al.                                  |  |
|                       | A19                      | 6,321,007 B1                             | 11-20-2001                     | Sanders  |  |
|                       | A20                      | 6,356,681 B1                             | 03-12-2002                     | Chen et al.  |  |
|                       | A21                      | 6,542,673 B1                             | 04-01-2003                     | Holter et al.                                      |  |
|                       | A22                      | 6,545,758 B1                             | 04-08-2003                     | Sandstrom  |  |
|                       | A23                      | 6,905,885 B2                             | 06-14-2005                     | Colston et al.                                     |  |

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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|  |   |    |   |                          |                          |
|--|---|----|---|--------------------------|--------------------------|
| Substitute for form 1440/PTO<br><br><b>INFORMATION DISCLOSURE STATEMENT<br/>BY APPLICANT</b><br><i>(Use as many sheets as necessary)</i> |   |    |   | <b>Complete if Known</b> |                          |
|  |   |    |   | Application Number       | 10/661,836               |
|  |   |    |   | Filing Date              | September 12, 2003       |
|  |   |    |   | First Named Inventor     | John Moon                |
|  |   |    |   | Art Unit                 | 1743                     |
|  |   |    |   | Examiner Name            | Hyun, Paul Sang Hwa      |
|  |   |    |   | Attorney Docket Number   | IP-0018-US (830-0018US1) |
| Sheet  | 2 | of | 6 |                          |                          |

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>figures Appear |
|-----------------------|--------------------------|--|--------------------------------|---|--|
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |   |  |
|                       | A24                      | 2002/0000471 A1                          | 01-03-2002                     | Aasmul et al.                                   |  |
|                       | A25                      | 2002/0006664 A1                          | 01-17-2002                     | Sabatini  |  |
|                       | A26                      | 2002/0094528 A1                          | 07-18-2002                     | Salafsky  |  |
|                       | A27                      | 2002/0097658 A1                          | 07-25-2002                     | Worthington et al.                              |  |
|                       | A28                      | 2002/0155490 A1                          | 10-24-2002                     | Skinner et al.                                  |  |
|                       | A29                      | 2003/0228610 A1                          | 12-11-2003                     | Seul  |  |
|                       | A30                      | 2004/0047030 A1                          | 03-11-2004                     | MacAuley  |  |
|                       | A31                      | 2004/0100636 A1                          | 05-27-2004                     | Somekh et al.                                   |  |
|                       | A32                      | 2004/0125370 A1                          | 07-01-2004                     | Montagu   |  |
|                       | A33                      | 2004/0125424 A1                          | 07-01-2004                     | Moon et al.                                     |  |
|                       | A34                      | 2004/0126875 A1                          | 07-01-2004                     | Putnam et al.                                   |  |
|                       | A35                      | 2004/0233485 A1                          | 11-25-2004                     | Moon et al.                                     |  |
|                       | A36                      | 2005/0042764 A1                          | 02-24-2005                     | Sailor et al.                                   |  |
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|  |   |    |   | Filing Date              | September 12, 2003       |
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|  |   |    |   | Art Unit                 | 1743                     |
|  |   |    |   | Examiner Name            | Hyun, Paul Sang Hwa      |
|  |   |    |   | Attorney Docket Number   | IP-0018-US (830-0018US1) |
| Sheet  | 3 | of | 6 |                          |                          |

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document   | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|---|-----------------------------|---|---|----------------|
|                    |                       | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) |                             |   |   |                |
|                    | B1                    | CH 598661A (with translation)   | 5/12/1978                   | Ballmoos, Fritz Von.                            |   |                |
|                    | B2                    | EP 0 916 981  | 5/19/1999                   | Jovin et al.                                    |   |                |
|                    | B3                    | EP 1 182 054 A2   | 2/27/2002                   | Tompkin, W. R., et al.                          |   |                |
|                    | B4                    | EP 1 219 979 A1   | 7/3/2002                    | Satoh, et al.                                   |   |                |
|                    | B5                    | GB 2 129 551  | 5/16/1984                   | El, Mochida, et al.                             |   |                |
|                    | B6                    | GB 2 372 100  | 8/14/2002                   | Marconi Caswell                                 |   |                |
|                    | B7                    | JP 11-119029 (Abstract)   | 4/30/1999                   | Terao, Y.                                       |   |                |
|                    | B8                    | JP 2000-035521 (with translation)   | 2/2/2000                    | Kawanishi                                       |   |                |
|                    | B9                    | WO 00/61198   | 10/19/2000                  | Hitachi Chemical Co.                            |   |                |
|                    | B10                   | WO 01/58583 A1  | 8/16/2001                   | Maiefski, R., et al.                            |   |                |
|                    | B11                   | WO 01/71322 A2  | 9/27/2001                   | Goh, M. C., et al.                              |   |                |
|                    | B12                   | WO 02/059306 A2   | 8/1/2002                    | Wel, M., et al.                                 |   |                |
|                    | B13                   | WO 03/061983  | 7/31/2003                   | Steenblik et al.                                |   |                |
|                    | B14                   | WO 04/019276 A1   | 3/4/2004                    | Moon, J., et al.                                |   |                |
|                    | B15                   | WO 2004/024328  | 3/25/2004                   | Cidra Corporation                               |   |                |
|                    | B16                   | WO 2004/025562  | 3/25/2004                   | Cidra Corporation                               |   |                |
|                    | B17                   | WO 2004/066210  | 8/5/2004                    | Cyvera Corporation                              |   |                |
|                    | B18                   | WO 96/36436 A1  | 11/21/1996                  | Nova, M. P., et al.                             |   |                |

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|  |   |    |   | Examiner Name            | Hyun, Paul Sang Hwa      |
|  |   |    |   | Attorney Docket Number   | IP-0018-US (830-0018US1) |
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|  | C1                    | Jain KK, Nanodiagnostics: application of nanotechnology in molecular diagnostics, Expert Review of Molecular Diagnostics 3(2):153-161 (2003), XP008038849  |                |
|  | C2                    | Othonos, X. Lee; Superimposed Multiple Bragg Gratings, 10th November 1994, Vol. 30, No. 23   |                |
|  | C3                    | Po Ki Yuen, Microbarcode Sorting Device; Science & Technology, Corning Incorporated, Corning, New York 14831-0007, USA   |                |
|  | C4                    | International Search Report and Preliminary Examination Report for International Application No. PCT/US2003/26315  |                |
|  | C5                    | International Search Report and Written Opinion for International Application No. PCT/US2003/26316   |                |
|  | C6                    | International Search Report for International Application No. PCT/US2003/28862   |                |
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|  | C9                    | International Search Report for International Application No. PCT/US2003/28887   |                |
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|   | C12                      | International Search Report for International Application No. PCT/US2003/29244   |                |
|   | C13                      | International Search Report and Written Opinion for International Application No. PCT/US2004/01685   |                |
|   | C14                      | International Search Report and Written Opinion for International Application No. PCT/US2004/30037   |                |
|   | C15                      | International Search Report and Written Opinion for International Application No. PCT/US2004/30038   |                |
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